CITY OF DUBLIN

Community Development Department
Building & Safety Division
100 Civic Plaza, Dublin, CA 94568 • Ph: (925) 833-6620 • www.dublin.ca.gov

CalGreen Residential Building Checklist
Additions and Alterations

Following is a standardized checklist of CalGreen Mandatory Measures requirements that may be used for additions and alterations. Check all measures that apply to your project in the "Required" column and place a check mark in the "N/A" for all measures that do not apply to your project. This form is part of your approved plans and must be made available to the Building Inspector at time of inspection. The checklist requirements shall apply only to and/or within the specific area of the addition or alteration.

Address: _____ **Permit No.:** _____

2013 CalGreen Residential Room Addition/Remodel Prescriptive Checklist Feature or Measure	Required	N/A
SITE DEVELOPMENT		
Dublin Municipal Code 7.74 Storm Water Management and Discharge Control The site shall be the minimum requirements for drainage per the city municipal code.		
WATER EFFICIENCY AND CONSERVATION (INDOOR / OUTDOOR WATER USE)		
4.303.1 Water conserving plumbing fixtures (water closets and urinals) and fittings (faucets and shower heads) shall comply with the maximum flow rates: 1. Water closets: shall not exceed 1.28 gal/flush. 2. Urinals: shall not exceed 0.5 gal/flush. 3. Single showerheads: shall not exceed 2.0 gpm at 80 psi. 4. Multiple showerheads: combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gpm at 80 psi, or only one shower outlet is to be in operation at a time. 5. Residential lavatory faucets: shall not exceed 1.5 gpm at 60 psi. 6. Lavatory faucets in common and public use area of residential buildings: shall not exceed 0.5 gpm at 60 psi. 7. Metering faucets: shall not exceed 0.25 gal/cycle. 8. Kitchen faucets: shall not exceed 1.8 gpm at 60 psi; temporary increase to 2.2 gpm allowed but shall default to 1.8 gpm (note: where compliant faucets are unavailable, aerators may be used).		
4.304.1 Automatic irrigation system controllers for landscaping shall be weather- or soils moisture-based controllers that automatically adjust irrigation in response to changes in plant watering needs as weather or soil conditions change.		
MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		
4.406.1 Rodent proofing. Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete material or other approved method acceptable to City.		
BUILDING MAINTENANCE AND OPERATION		
4.410.1 At time of final inspection, provide a maintenance manual or other acceptable media which includes and describes 10 points concerning the use and operation of all systems used within the dwelling (e.g., HVAC systems, controllers, etc.).		
ENVIRONMENTAL QUALITY		
4.503 Any installed gas fireplace shall be a direct-vent sealed-combustion type. All woodstoves or pellet stoves shall comply with U.S. EPA Phase II emission limits. See Dublin Municipal Code Section 7.34.210 for local ordinance.		

Feature or Measure	Required	N/A
POLLUTANT CONTROL		
4.504.1 At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air intake and distribution component openings shall be covered. Tape, plastic, sheet metal or other methods acceptable to the City to reduce the amount of water, dust and debris entering the system.		
4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.		
4.504.2.2 Paints and other coatings shall be compliant with VOC limits.		
4.504.2.3 Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds.		
4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used. Documentation may include, but is not limited to the following: 1. Manufacturer's product specification. 2. Field verification of on-site product containers.		
4.504.3 Carpet and carpet systems (cushions) shall be compliant with VOC limits.		
4.504.4 Install VOC compliant resilient flooring systems. At least 80% of the resilient flooring installed shall comply.		
4.504.5 Hardwood plywood, particleboard and medium density fiberboard (MDF) used on the interior and exterior of the building shall comply with low formaldehyde emission standards.		
4.504.5.1 Verification of compliance with this section shall be provided.		
INTERIOR MOISTURE CONTROL		
4.505.2 Vapor retarder and capillary break shall be installed at slab on grade foundations.		
4.505.3 Moisture content of building materials used in wall and floor framing shall not exceed 19% moisture content.		
4.506.1 ENERGY STAR compliant exhaust fans controlled by humidistat which terminate outside the building are provided in every bathroom.		
ENVIRONMENTAL COMFORT		
4.507.2 Heating and air conditioning systems shall be sized, designed, and equipment system selected using the following methods: 1. Establish heat loss and heat gain values according to ACCA 2 (Manual J) or equivalent. 2. Size duct systems according to ACCA 1 (Manual D) or equivalent. 3. Select heating and cooling equipment according to ACCA 3 (Manual S) or equivalent.		
VERIFICATION		
Upon request by the City, documentation shall be provided that shows compliance with the California Green Building Standards Code. The documents requested shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the City which demonstrate substantial conformance.		

Responsible Design Professional Declaration Statement	**Contractor Declaration Statement**
I hereby certify that this project has been designed to meet the requirements of the 2013 California Green Building Standards Code.	I hereby certify, as the builder or installer under the permit listed herein, that this project will be constructed to meet the requirements of the 2013 California Green Building Standards Code.
Name:	Name:
Signature:	Signature:
Date:	Date:
Company:	License No.:
Address:	Address:

TABLES

TABLE 4.504.1
ADHESIVE VOC LIMIT[1, 2]
Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

1. If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be allowed.
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168.

TABLE 4.504.2
SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural	
Nonporous	250
Porous	775
Modified bituminous	500
Marine deck	760
Other	750

TABLE 4.504.3
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2, 3]
Grams of VOC per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY	EFFECTIVE 1/1/2010	EFFECTIVE 1/1/2012
Flat coatings	50	
Nonflat coatings	100	
Nonflat-high gloss coatings	150	
SPECIALTY COATINGS		
Aluminum roof coatings	400	
Basement specialty coatings	400	
Bituminous roof coatings	50	
Bituminous roof primers	350	
Bond breakers	350	
Concrete curing compounds	350	
Concrete/masonry sealers	100	
Driveway sealers	50	
Dry fog coatings	150	
Faux finishing coatings	350	
Fire resistive coatings	350	
Floor coatings	100	
Form-release compounds	250	
Graphic arts coatings (sign paints)	500	
High temperature coatings	420	
Industrial maintenance coatings	250	
Low solids coatings[1]	120	
Magnesite cement coatings	450	
Mastic texture coatings	100	
Metallic pigmented coatings	500	
Multicolor coatings	250	
Pretreatment wash primers	420	
Primers, sealers, and undercoaters	100	
Reactive penetrating sealers	350	
Recycled coatings	250	
Roof coatings	50	
Rust preventative coatings	400	250
Shellacs		
Clear	730	
Opaque	550	
Specialty primers, sealers and undercoaters	350	100
Stains	250	
Stone consolidants	450	
Swimming pool coatings	340	
Traffic marking coatings	100	
Tub and tile refinish coatings	420	
Waterproofing membranes	250	
Wood coatings	275	
Wood preservatives	350	
Zinc-rich primers	340	

1. Grams of VOC per liter of coating, including water and including exempt compounds.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

TABLE 4.504.5
FORMALDEHYDE LIMITS[1]
Maximum Formaldehyde Emissions in Parts per Million

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard[2]	0.13

1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E 1333. For additional information, see *California Code of Regulations*, Title 17, Sections 93120 through 93120.12.
2. Thin medium density fiberboard has a maximum thickness of $^{5}/_{16}$ inch (8 mm).